

DOW CORNING

CBIC Control Number

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Document Control Office (7407)
Office of Pollution Prevention and Toxics
U.S. Environmental Protection Agency
Attn: TSCA Section 8(e) Coordinator
Ariel Rios Building
1200 Pennsylvania Avenue, NW
Washington, DC 20004

Re: TSCA Section 8(e) Notification of Substantial Risk:
1,1,1,3,5,5,5-Heptamethyl-3-(propyl(poly(EO))hydroxyl) Trisiloxane

Dear TSCA Section 8(e) Coordinator:

In accordance with the provisions of Section 8(e) of the Toxic Substances Control Act (TSCA), as interpreted in the TSCA Section 8(e) Policy Statement and Guidance, Fed. Reg. 33129 (June 3, 2003) and other Agency guidance, Dow Corning Corporation submits information concerning an acute inhalation toxicity study with 1,1,1,3,5,5,5-Heptamethyl-3-(propyl(poly(EO))hydroxyl) Trisiloxane.

Chemical Substances

<u>Chemical Abstract Number</u>	<u>Weight Percent</u>	<u>Component Name</u>
67674-67-3	70-90	3-(Polyoxyethylene)propylheptamethyltrisiloxane
27274-31-3	10 - 20	Polyethylene oxide monoallyl ether
25322-68-3	5 - 10	Polyethylene glycol

Study Type

Acute Inhalation Toxicity Study of 1,1,1,3,5,5,5-Heptamethyl-3-(propyl(poly(EO))hydroxyl) Trisiloxane in Rats (Limit Test)

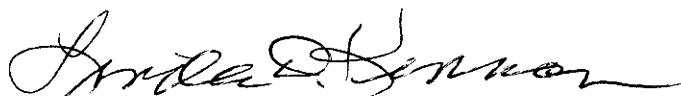
Summary

The objective of this study was to determine the 4-hour acute toxicity of 1,1,1,3,5,5,5-Heptamethyl-3-(propyl(poly(EO))hydroxyl) Trisiloxane when administered at 2 mg/L by a single inhalation exposure to male and female Sprague-Dawley CD rats. The study was conducted under U.S. EPA Pesticide Assessment Guideline, Subdivision F, Section 81-3, entitled

Acute Inhalation Toxicity Study. This was an aerosol whole-body exposure study on 5 male and 5 female Sprague Dawley CD rats that used only one targeted dose level at 2 mg/L given on one day for four hours with a 14 day observation period. The mean concentration of aerosol measured in the exposure test atmosphere was 2.13 mg/l with mass median aerodynamic diameter (MMAD) of the aerosol particle size ranging from 1.55 to 1.69 μ m with geometric standard deviations of 1.88 to 1.99 as measured by cascade impactor. Seven out of 10 rats (4 males and 3 females) died, all within 4 days post exposure. The three animals surviving to study termination all gained weight. Clinical signs observed in exposed animals consisted of hypoactivity, discoloration around mouth, redness around nose fur, wet inguinal fur, dyspnea, rales and rough hair coat. All signs were observed within nine days of exposure and all surviving animals exhibited no adverse clinical signs for the rest of the observation period. Gross necropsy findings on the spontaneous death animals included mottled red and dark red lungs, firm mottled red lungs, bloated and empty stomach, and distended and empty small and large intestines. No gross lesions were observed at the end of the 14-day post exposure observation period. Based on these results, the combined LC50 for male and female Sprague Dawley CD rats exposed to this agent was estimated to be less than 2.13 mg/L for a 4-hour exposure and 14-day post-exposure observation period.

Dow Corning has not made a determination as to whether a significant risk or injury to human health or the environment is actually presented by the findings. Dow Corning Corporation will notify EPA of any further relevant information that may be developed concerning this product. If you have any questions concerning this submission, please contact me at (989) 496-1838, l.d.kennan@dowcorning.com, or at the address provided herein.

Sincerely,

A handwritten signature in black ink, appearing to read "Linda Kennan", with a stylized flourish at the end.

Linda Kennan, MS
Corporate VP, Stewardship
Dow Corning Corporation

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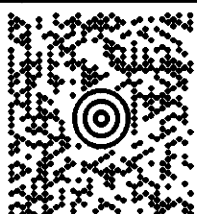

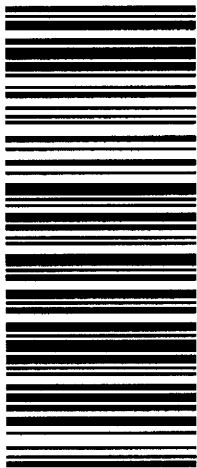

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